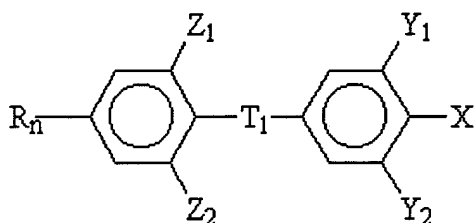


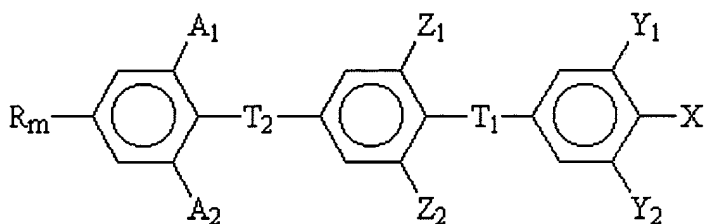
Appendix A1: Amended Abstract

ABSTRACT

New tolane and bis-tolane compounds:



(Structure IV)



A_i
(Structure V)

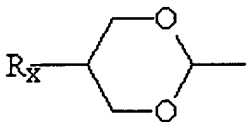
in which X is F (fluoro), CN (cyano), OCF_3 (trifluoromethoxy), or NCS (isothiocyanate)

at least one of the pairs Y_1 and Y_2 , Z_1 and Z_2 , and A_1 and A_2 are fluoro groups.

T_1 for the tolanes is a triple bond. For the bis-tolanes T_1 and T_2 are either both triple bonds or one of the two groups is a double bond.

R_n or R_m may be an alkyl group, an alkenyl group, an alkoxy group, or an alkenoxy group. For the tolane compounds, R_n may be a:

dioxane substituent:



(Structure VII)

in which R_x may be as R_n or R_m above.

These compounds exhibit useful nematic ranges and melting points. Also disclosed are eutectic mixtures including these compounds.

A₁
Cont